

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet **1** of **3****Complete if Known**

Application Number	10/023,259
Filing Date	December 14, 2001
First Named Inventor	Jung-Hwan Park
Group Art Unit	3767
Examiner Name	Catherine Witzczak
Attorney Docket Number	22300.105009

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages/Relevant Figures Appear
		Number	Kind Code (if known)			
	1.	2005/0065463		Tobinaga et al.	03-24-2005	
	2.	2005/0137531		Prausnitz et al.	06-23-2005	
	3.	2006/0036209		Subramony et al.	02-16-2006	
	4.	2007/0225676		Prausnitz et al.	09-27-2007	
	5.	2007/0293814		Trautman et al.	12-20-2007	
	6.	2008/0027384		Wang et al.	01-31-2008	
	7.	2008/0058706		Zhang et al.	03-06-2008	
	8.	2008/0161747		Lei et al.	07-03-2008	
	9.	2008/0319298		Huys et al.	12-25-2008	
	10.	2009/0062767		Van Antwerp et al.	03-05-2009	
	11.	2009/0131905		Allen et al.	05-21-2009	
	12.	2009/0208140		Suresh et al.	08-20-2009	
	13.	2009/0232203		Jayant et al.	09-17-2009	
	14.	1,274,081		Riethmueller	07-30-1918	
	15.	2,559,474		Son	07-03-1951	
	16.	4,411,657		Galindo	10-25-1983	
	17.	4,494,950		Fischell	01-22-1985	
	18.	4,512,768		Rangaswamy	04-23-1985	
	19.	4,653,513		Dombrowski	03-31-1987	
	20.	4,830,217		Dufresne et al.	05-16-1989	
	21.	4,886,499		Cirelli et al.	12-12-1989	
	22.	5,241,969		Carson et al.	09-07-1993	
	23.	5,396,897		Jain et al.	03-14-1995	
	24.	5,451,210		Kramer et al.	09-19-1995	
	25.	5,632,730		Reinert	05-27-1997	
	26.	5,647,851		Pokras	07-15-1997	
	27.	5,662,619		Zarate	09-02-1997	
	28.	5,680,858		Hansen et al.	10-28-1997	
	29.	5,722,397		Eppstein	03-03-1998	
	30.	5,725,494		Briskin et al.	03-03-1998	
	31.	5,919,159		Lilley et al.	07-06-1999	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement. This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

ATL_IMANAGE-7230608.1

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet **2** of **3**

Complete if Known	
Application Number	10/023,259
Filing Date	December 14, 2001
First Named Inventor	Jung-Hwan Park
Group Art Unit	3767
Examiner Name	Catherine Witeczak
Attorney Docket Number	22300.105009

7230608 1.DOC 1

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. 1	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages/Relevant Figures Appear
		Number	Kind Code (if known)			
	32.	6,155,992		Henning	12-05-2000	
	33.	6,219,574		Comier et al.	04-17-2001	
	34.	6,440,096		Lastovich et al.	08-27-2002	
	35.	6,503,231		Prausnitz et al.	01-07-2003	
	36.	6,527,778		Athanasios et al.	03-04-2003	
	37.	6,537,242		Palmer	03-25-2003	
	38.	6,551,622		Jackson	04-22-2003	
	39.	6,611,707		Prausnitz et al.	08-26-2003	
	40.	6,623,457		Rosenberg	09-23-2003	
	41.	6,669,663		Thompson	12-30-2003	
	42.	6,689,103		Palasis	02-10-2004	
	43.	6,743,211		Prausnitz et al.	06-01-2004	
	44.	7,226,439		Prausnitz et al.	06-05-2007	
	45.	7,344,499		Prausnitz et al.	03-18-2008	
	46.	3,762,307		Badovinac	10-02-1973	
	47.	4,182,002		Holec	01-08-1980	
	48.	3,595,231		Pistor	07-27-1971	
	49.	3,583,399		Ritsky	06-08-1971	
	50.	5,257,987		Athayde et al.	11-02-1993	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. 1	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages- Relevant Figures Appear	T ²
		Office ³	Number Kind Code ² (if known)				
	51.	DE	195 25 607	Boehringer Ingelheim KG	01-16-1997		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	119.	CHUN et al., "An Array of Hollow Microcapillaries for the Controlled Injection of Genetic Materials Into Animal/Plant Cells." <i>IEEE</i> , 1999, pgs. 406-411.	

Examiner Signature	Date Considered
-----------------------	--------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

ATL_IMANAGE-7230608.J

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete If Known	
				Application Number	10/023,259
				Filing Date	December 14, 2001
				First Named Inventor	Jung-Hwan Park
				Group Art Unit	3767
				Examiner Name	Catherine Witeczak
Sheet	3	of	3	Attorney Docket Number	22300.105009

7230608 I.DOC 1

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	120.	CHUN et al., "DNA Injection into Plant Cell Conglomerates by Micromachined Hollow Microcapillary Arrays," The 10th International Conference on Solid-State Sensors and Actuators ³ : Transducers '99, June 7-10, 1999, pgs. 44-47.	
	121.	Proceedings of the IEEE Micro Electro Mechanical Systems Conference 1987-1998, Rai-Chadhoury, ed., <u>Handbook of Microlithography, Micromachining & Microfabrication</u> (SPIE Optical Engineering Press), Bellingham, WA, 1997.	

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231
ATL_IMAGE-7230608.1